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A TABULATION OF DATA BASES: ACCESS AND CONTENT(U)
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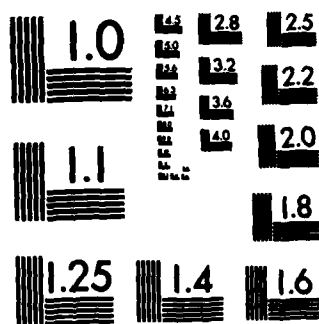
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DIRECTORATE OF STRATEGIC ANALYSIS

ORAE PROJECT REPORT NO. 219

A TABULATION OF DATA BASES:
ACCESS AND CONTENT

by

JR PRITCHARD

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OPERATIONAL RESEARCH AND ANALYSIS ESTABLISHMENT
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for CHIEF, OPERATIONAL RESEARCH AND ANALYSIS ESTABLISHMENT

ABSTRACT

94/ The report tabulates for several library locations in the National Capital area, those data bases which are accessible and a short description of their contents.

SOMMAIRE

Pour les quelques services libraires dans l'agglomération de la Capitale nationale, le rapport catalogue ces bases de données qui sont accessibles et, aussi, une courte description de leurs contents.

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ACKNOWLEDGEMENT

In the assembling of material, the kind assistance of the following is gratefully acknowledged:

- a. Mrs. Christa Collin, ORAE Library
- b. Mr. Paul Caldwell, DSIS
- c. Mr. John Flood, Department of External Affairs
- d. Ms. Susan Blevins, NDHQ Library
- e. Ms. Rede Widstrand, Carleton University

A TABULATION OF DATA BASES:

ACCESS AND CONTENT

INTRODUCTION

The paper is a tabulation of data bases that a researcher in the National Capital Area might call upon and where they might be found.

For points of access, both inside and outside of the Department of National Defence, the reader should not make any assumptions regarding cost of search, general accessibility, timeliness of response or the quality of the resulting material.

AIM

The aim of this paper is to assemble information describing data bases and to give the location of access to these resources.

SCOPE

With the fantastic growth of information, it is possible to spend an enormous amount of time and effort just on the tabulation of sources without anything more than a superficial contact with the recorded information.

Since this paper is in support of the work program of ORAE, quite naturally then, the set of locations that have been included are those which would be considered within easy access by the members of D Strat A and DSPP.

For the set of sources, those data bases which are available at the various locations have been included.

Only unclassified data bases are considered.

Clearly the scope of this paper is defined only for the time of writing, a snapshot. Because of the continuing production of information, data bases will generally continue to grow although some may fail for economic reasons. This scope will become outdated for several reasons including the following obvious ones:

- a. for a particular location, a new data base is added;
- b. for an existing data base, its range of interest and/or publications consulted expands;
- c. for an umbrella system (eg DIALOG), another data base is added.

For the purposes of this paper, the term data base is taken in a broad sense, including not only a collection of information on a specific topic but also a system which serves as an umbrella for several specific collections.

TABULATION

The set of locations, after consultation, was taken as the following;

- a. ORAE Library
- b. DSIS
- c. NDHQ Library
- d. Dept of External Affairs Library
- e. Carleton University, Norman Patterson School of International Affairs, Resource Centre.

Each location will be taken in turn and given a listing of its major data bases. These data bases are those which appear important to the wide-ranging studies of D Strat A and which are often electronically searchable. For each data base, the reader is referred to a specific annex wherein a short description of the data base is provided.

LIST OF LOCATIONS

ORAE LIBRARY has DIALOG which is described at Annex

A.

DSIS (Defence Scientific Information Services) has the following available:

- a. DIALOG (see Annex A)
- b. CAN/OLE (see Annex B)
- c. OL/SEARCH (see Annex C)
- d. ORBIT (see Annex D)
- e. DROLS (see Annex E)
- f. DSIS Retro (see Annex F)
- g. Info GLOBE (see Annex G)
- h. NYTIS Times Information Service/Information Bank
(see Annex H)
- j. NEXIS (see Annex J)

NDHQ Library has the following available:

- a. DIALOG (see Annex A)
- b. CAN/OLE (see Annex B)

The Department of External Affairs Library has the following available:

- a. CANSIM (see Annex K)
- b. QL/SEARCH (see Annex C)
- c. INFO GLOBE (see Annex G)
- d. NYTIS, NY Times Information Service/Information Bank (see Annex H)
- e. DMS/ONLINE (see Annex L)
- f. DRI International Data Banks (Annex M)
- g. DIALOG (see Annex A)
- h. Dow Jones News/RETRIEVAL (see Annex N)
- j. CAN/OLE (see Annex B)

- k. ORBIT (see Annex D)
- l. International Trade Data Bank (Annex P)
- m. Canada's Bilateral Relations: Some Key Statistics (Annex Q)
- n. (under development) Fact Sheets for Selected Countries.

At the Norman Patterson School of International Affairs, Carleton University, the following are available:

- a. DIALOG (see Annex A)
- b. (near future) the School's holdings will be online with a major shift in search strategy from key words in context (titles) to a controlled vocabulary/thesaurus.
- c. through the Main Library, involving
 - i. CATSUP (Catalog System Update Program, which will place the complete holdings at Carleton University online.

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ii. INET (to be available soon) which will allow
easy access to many data bases (eg. DIALOG,
ORBIT, Info CLOBE etc.)

OTHER REFERENCES

With growth of information, it is not surprising that it is now necessary to have indexes to indexes of information. For those who feel the Annexes herewith are too few or incomplete, the following short list of expanding references is given:

- a. Computer-readable Databases: A Directory and Data Sourcebook, (Washington, D.C.: American Society for Information Science).
- b. MJ Brown and JL Hall, Online Bibliographic Data Bases: An International Directory, Second Edition, (Gale Research Co., 1981).
- c. HC Campbell, The Espial Data Base Directory: A Guide to Current Canadian Information Contained in National and International Data Bases and Data Banks, (Toronto: Espial Productions, 1981).
- d. VS Sessions, Directory of Data Bases in the Social and Behavioural Sciences, (New York: Science Associates/International and the City University of New York, 1974).

- e. COIN: A Directory of Computerized Information in Canada, (Edmonton: Alberta Information Retrieval Association, 1982).
- f. RN Cuadra, DM Abels and J Wanger (editors and compilers), Directory of Online Data Bases (Vol. 4, no 1), (Santa Monica, Calif.: Cuadra Associates Inc., Fall 1982).

ANNEX A

DIALOG

1. DIALOG is an umbrella system which is composed of about 200 data bases each created for a specific area of interest. Tabulated subsequently is a short list of some of the data bases, pertinent to the interests of D Strat A. The information included is obtained from the descriptions presented in DIALOG material.

- a. NTIS is produced by the National Technical Information Service of the US Department of Commerce, the central source for the public sale and dissemination of US government - sponsored research. The data base consists of research, development and engineering reports as well as other analyses prepared by government agencies, their contractors or grantees (particularly the US Department of Environment, DOE; US Department of Defense, DOD; and National Aeronautics and Space Administration, NASA)
- b. SOCIAL SCISEARCH database is an international, multidisciplinary index to the literature of the social, behavioural and related sciences represented by more than 1500 important

journals. Additional relevant material from 2400 journals in the natural, physical and biomedical sciences is selected.

- c. OCEANIC ABSTRACTS organizes and indexes worldwide technical literature in all aspects of the oceans, including but not limited to subject areas of ships and shipping and government and law.
- d. COMPREHENSIVE DISSERTATION INDEX is a definitive subject, title, and author guide to virtually every American dissertation accepted at an accredited institution since 1861 (first US doctoral degrees). Master theses are selectively indexed. Some Canadian dissertations are included.
- e. SOCIOLOGICAL ABSTRACTS, which corresponds to the printed index of the same name, covers the world's literature in sociology and related disciplines in the social and behavioural sciences.
- f. AMERICA: HISTORY AND LIFE is a comprehensive file including the full range of US and Canadian history, area studies and current affairs. A

list is available showing fields of specific emphasis which includes military history, politics and government.

- g. HISTORICAL ABSTRACTS includes the world's periodical literature in history and related social sciences and humanities. Coverage excludes US and Canada but includes, among other subject areas, military history, international relations and diplomatic history. Consideration is given to 2,000 journals published in 90 countries in some 30 languages.
- h. ENVIROLINE, produced by Environment Information Center (EIC), provides interdisciplinary coverage of the scientific, technical and socio-economic aspects of the major English and non-English language environmental and resources literature. Among the subjects covered are general environmental topics, oceans and estuaries. Material is drawn from approximately 5,000 primary and secondary sources of information.
- i. AQUATIC SCIENCES AND FISHERIES ABSTRACTS is a comprehensive database on the science, technology and management of marine and freshwater environments, and includes such subjects as law

of the sea, vessels, underwater vessels and buoys.

- k. MAGAZINE INDEX provides cover-to-cover indexing of over 370 popular American magazines, including national and international current affairs.
- l. PAIS INTERNATIONAL, the data base of Public Affairs Information Service, covers the full range of the social sciences with emphasis on contemporary public issues and the making and evaluating of public policy. Worldwide in scope, this database lists publications in English, French, German, Italian, Portuguese and Spanish, and typically indexes more than 1200 journals and 8000 monographs each year.
- m. SSIE CURRENT RESEARCH is produced by the Smithsonian Science Information Exchange. This data base contains summaries of research either in progress or completed in the past two years. The file consists of Notices of Research Project (NRP) that are usually available for retrieval well before progress on final reports appear in the open literature. The data base encompasses all fields of basic and applied research in the physical, social, engineering and life sciences.

Over 100,000 NRPs are registered each year, two-thirds of which are updates of continuing research and are re-indexed as necessary to reflect shifts in emphasis and scope. As a research-in-progress database, this offers a unique non-bibliographic information resource.

- n. CONFERENCE PAPERS INDEX covers about 100,000 papers of approximately 800 scientific and technical meetings worldwide each year. Information entries are based upon the final program or abstract publication, supplemented by responses to questionnaires sent by staff. Material referenced may include papers presented at conferences but not yet published and some not intended for publication.

- p. PTS TIME SERIES is composed of two data bases created by PTS (Predicasts Terminal System). The first, PTS US TIME SERIES, contains US data while the second, PTS INTERNATIONAL TIME SERIES contains data on the world, regions and individual countries. Each of these two data bases contains an annual time series of historical data and a time series of historical and projected data with coverage including production consumption, price and usage

statistics for agriculture, mining, manufacturing and service industries as well as general economic, demographic and national income series.

g. ECONOMICS ABSTRACTS INTERNATIONAL offers world-wide economic information concerning market trends, economic developments, particular economic climates, management problems and economic science. Over half the geographic-specific material concerns Europe, with 20% on Asia, 15% on North American and the remainder on Africa, South American and Oceania. The language distribution of the sources is about 53% English, 20% German, 17% Dutch, 9% French and 1% other. Titles are generally given in the language of the original; all descriptors are in English only.

r. UNITED STATES POLITICAL SCIENCE DOCUMENTS is devoted to the in-depth coverage of the most widely used political science journals published in the U.S. All articles (a cover-to-cover selection policy is used) from approximately 150 US journals are included.

s. CIS (Congressional Information Service) is a master guide and index to the publications of the

nearly 300 United States House, Senate, and Joint committees and sub-committees. These publications include: reports, documents, hearings, prints and special publications. The CIS includes descriptive abstracts for each publication, including abstracts for both main hearing records and each analytic (or witness) hearing record.

t. TRADE OPPORTUNITIES WEEKLY (TOW) contains live purchase requests by the international market for US goods and services. This time-critical information is updated weekly and describes the specific products or services which foreign governments or companies want to purchase or represent. TRADE OPPORTUNITIES (TO) contains the historical information taken quarterly from the database, TOW. The data base TO includes information in direct sales leads, overseas representation opportunities and foreign government calls for tender from more than 120 countries.

u. BI/DATA TIME SERIES is a data base of economic indicators which are used by business analysts to demonstrate and forecast fluctuations in business conditions. This data base consists of

historical time series data on up to 315 indicators for each of 131 countries. These records are numeric in nature and do not contain narrative abstracts.

- v. BI/DATA FORECASTS data base consists of 50 forecast reports, each containing a narrative text and a table of numerical forecasts. Short-term forecasts are available for all 35 countries and medium-term forecasts are available for 15. Each forecast record provides a concise report on current and expected government policies, political, social and financial conditions which are likely to affect economic performance over the forecast period, and also presents specific forecasts for a number of economic indicators.

- w. GPO (Government Printing Office) PUBLICATIONS REFERENCE FILE(PRF) indexes the public documents currently for sale by the Superintendent of Documents, US GPO, as well as forthcoming and recently out-of-print publications. These publications are generated by the legislative and executive branches of the US federal government. Congressional publications include bills, hearings, reports, documents from the committees and laws from Congress.

Executive branch publications include Presidential statements as well as agency annual reports, general informational and operational reports, long-established statistical series, technical reports, maps, administrative regulations, treaties and periodicals. Other sources include independently - established agencies and government corporations and various boards and committees.

- x. NEWSEARCH is the daily update of MAGAZINE INDEX, NATIONAL NEWSPAPER INDEX and LEGAL RESOURCE INDEX. It provides front page to back page indexing of the Christian Science Monitor, New York Times, Washington Post and Los Angeles Times as well as cover-to-cover indexing of over 370 popular American magazines, 660 law journals and 6 law newspapers. All articles, news reports, editorials, letters to the editor, obituaries, project evaluations, biographical pieces, poetry, recipes, columns, cartoons, illustrations and reviews are included.
- y. NATIONAL NEWSPAPER INDEX provides front-page to back-page indexing of the Christian Science Monitor, New York Times, Wall Street Journal, Washington Post and Los Angeles Times. All articles, news reports, editorials, letters to

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the editor, obituaries, product evaluations,
biographical pieces, poetry, recipes.

CAN/OLE

1. CAN/OLE whose title derives from Canadian online enquiry system, is an umbrella system which is composed of about 20 Canadian and international data bases. This system is a Canadian designed and operated national online information retrieval system for the retrospective searching of bibliographical reference files in all major fields of science and technology. This system is produced by the Canada Institute for Scientific and Technical Information (CISTI), a division of the National Research Council. Interactive conversation during search/retrieval may be conducted in English or French.

2. Tabulated subsequently is the list of data bases with a short description of each, based on a CISTI pamphlet.

- a. BIOSIS PREVIEW (IBA) prepared by the Bioscience Information Service, contains references on all aspects of the life sciences, including in part, agriculture, botany, biophysics, bioengineering, ecology, biochemistry, toxicology, pharmacology, microbiology, and experimental medicine. Over 8000 journals are monitored, accounting for 95% of the references.

- b. CA CONDENSATES (CAC), produced by the Chemical Abstracts Service, American Chemical Society, contains references on all aspects of chemistry and chemical engineering. Over 14000 journals from 150 countries and in 50 languages are monitored.
- c. CA SEARCH (CAS), produced by the Chemical Abstract Service, American Chemical Society, represents the merger of the two files CASIA and CA Condensates. This data base contains the CA Volume Index entries, keyword Index entries and the complete bibliographic citation for the original document.
- d. CHEMICAL INDEX (CHEMX), produced by the Chemical Abstracts Service, American Chemical Society, is a chemical index derived from the CA search file and contains Registry Numbers, molecular formulas in the Hill System Order and the CA Chemical Substance Nomenclature.
- e. COMPENDEX (EI), produced by the Engineering Index Inc, contains references to all aspects of engineering including civil, mining, industrial,

electronic, mechanical and chemical. Over 3000 journals are monitored which account for 53% of the references of which 72% are English language items.

- f. COAL is published by the Technical Information Service, IEA Coal Research and is provided by the Canada Center for Mineral and Energy Technology. This file includes coverage of the coal industry, reserves and exploration, mining, transport and handling, properties, processing, combustion, waste management, products, health and safety, and environment aspects from over 600 journals, book, reports, dissertations and conference proceedings.
- g. GEOREF, published by the American Geological Institute, contains references on all aspects of the geoscience or earth science literature.
- h. INTERNATIONAL NUCLEAR INFORMATION SYSTEM(INIS), database, developed by the International Atomic Energy Agency, provides worldwide coverage of the literature dealing with peaceful uses of nuclear science and technology. It contains over 650,000 records contributed by over 50 countries and international organizations.

- j. INTERNATIONAL INFORMATION SERVICES FOR THE PHYSICS AND ENGINEERING COMMUNITIES (INSPEC), produced by the (British) Institution of Electrical Engineers, contains references on all aspects of physics, electrical and electronic engineering, computer technology and control engineering. Over 23 journals are reviewed including translations of Russian journals. These account for 80% of the references of which 72% are English language items.
- k. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), is an organizational element of the US Department of Commerce and serves as the primary source for the public sale of government-sponsored research, development, engineering reports and machine processable data files and related software. The data base, while covering items originating from over 300 US federal agencies, concentrates on science and technology but also covers health, education, economics, sociology and behavioural sciences.
- l. ALBERTA OIL SANDS INDEX (AOSI), produced by the Alberta Research Council, is the key to documents on or related to all aspects of Alberta

general articles and reviews; history; geology; geography; analysis and properties; in situ recovery; mining; separation; upgrading; products and by-products; commercial development; economics; environment; social impact; government; and related technology and topics.

- m. COOPERATIVE DOCUMENT PROJECT (CODOC), file is produced by the academic libraries of Ontario, providing access to the combined governmental publication collections of 12 participating libraries in Ontario. The publications of Canadian federal and provincial governments as well as municipal governments are included. In addition publications of US (Federal, State and local), UK, British Commonwealth, France, Germany, USSR and the UN (with its agencies) are stored.
- n. ENVIRONMENT LIBRARIES AUTOMATED SYSTEM (ELIAS), file, created through the automated in-house library system at the Departmental Library, Environment Canada, provides access to holdings of libraries participating its network. The major subject areas include: conservation and natural resources; environmental impact analysis; environment management; forestry. land use;

meteorology and climatology; pollution; water resources and wildlife.

- p. DIRECTORY OF FEDERALLY SUPPORTED RESEARCH IN UNIVERSITIES (IEC), contains the essential data on current university-based research projects as reported to the Information Exchange Center (IEC) of CISTI, NRC.
- q. MICROLOG, data base provides access to Canadian federal, provincial and local government publications and also publications of non-government research institutions, professional associations and special interest groups. The subject areas include agriculture, behavioural and social sciences, business and economics, Canada North of 600, communications, culture and humanities, education, energy, environment, external affairs, fisheries, forestry, health care, justice labor, land use and planning, life sciences, natural resources and earth sciences, physical sciences, public administration, public works, social affairs and transportation.
- r. NORTHERN RESEARCH INFORMATION SERVICE (NRIS), file, created by the Northern Social Research

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Division, Northern Affairs Program gathers together and disseminates information on current research relating to social concerns in the Canadian worth. "Social" is interpreted in its broadest sense, to include at least environment, health, education, law, and communications.

- s. CISTI CURRENT CATALOG (OON), file provides access to a subset of CISTI's holdings and the holdings of its branch libraries. This conversion of CISTI's card catalogue is a gradual process with various types of material being phased in over a period of time and will assist users in the identification of material held.
- t. CAN/MARC (OONL), whose name derives from CANadian Machine Readable Cataloguing, was created by the National Library of Canada and is a file containing bibliographic information on all materials published in Canada since 1973 written by Canadians or of Canadian interest. Material includes books, pamphlets, federal/provincial/municipal government documents, report literature and Canadian theses available on microform.

- u. CANADIAN TRANSPORTATION DOCUMENTATION SYSTEM
(OOT) file, created by The Library and Information Centre, Transport Canada, contains the coded portion of its holdings which includes all non-restricted Transport Canada documents, as well as transportation and management related reports from other federal and provincial governments, universities and associations and selected foreign and American reports.

- v. UNION LIST OF SCIENTIFIC SERIALS IN CANADIAN LIBRARIES (UNION), published by CISTI, contains the locations of approximately 49,000 serials held by over 250 Canadian libraries.

- w. CANUCS database is the on-line version of the Union List of Serials in the Social Sciences and Humanities held by Canadian Universities and is intended for locating journals in Canadian libraries.

ANNEX C

QL/SEARCH

1. QL/SEARCH is an umbrella system which is composed of about 69 data base, created for a specific interest with emphasis on Canadian topics. Tabulated subsequently is a short list of some of the data bases, pertinent to the interests of D Strat A. The information included is obtained from the descriptions prepared by QL systems Ltd.

a. AQUATIC SCIENCES AND FISHERIES ABSTRACTS (ASFA)

is an international data base for the science, technology and management of marine and freshwater environments and is supported by the Canadian Federal Department of Fisheries and Oceans and WATDOC of Environment Canada.

b. CANADIAN NEWS INDEX (CNI) contains major stories

from the Montreal Star, Toronto Globe and Mail, Toronto Star, Vancouver Sun, Winnipeg Free Press, Calgary Herald and Halifax Chronicle-Herald and is updated monthly.

c. COUNCIL OF ONTARIO UNIVERSITIES CO-OPERATIVE

DOCUMENTS PROJECTS (CODOC) is a bibliographical

data base containing government document
collections of university libraries in Ontario.

- d. COMMUNICATIONS INFORMATION (COMM) covers communications, mass media, propoganda and telecommunications. The focus is contemporary political, social and legal aspects with some technical information also included.
- e. CANADIAN PRESS NEWSTEX (CPN) lists the complete CP News Wire Service from 1 May 1981 up to midnight last night.
- f. ENERGY (ENG) is the Canadian Energy Projects Information Data Base prepared by Energy, Mines and Resources Canada in co-operation with the provinces and the private sector, consisting of summaries of significant energy research, development and demonstration projects in Canada.
- g. HANSARD ORAL QUESTIONS (HOQ) contains both the oral questions and responses in the Canadian House of Commons and is updated biweekly with the inclusion of the full text.
- h. HANSARD WRITTEN QUESTIONS (HWO) contains both the written questions and responses in the Canadian

House of Commons and is updated biweekly with the inclusion of the full text.

- j. INTERNATIONAL BIBLIOGRAPHY OF THE SOCIAL SCIENCES (IBSS) is an experimental database of items to be published in the 1979 and 1980 International Bibliography of Economics and 1980 International Bibliography of Sociology and will be edited by Dr. J. Viet for the International Committee for Social Science Information and Documentation.
- k. SOLID WASTE (SOL) contains detailed references to solid waste management projects undertaken in Canada since 1970 and is produced by Environment Protection Service and WATDOC, Environment Canada.

ANNEX D

ORBIT

1. ORBIT is an online interactive bibliographic retrieval system designed and implemented by the Search Service Division of System Development Corporation, Santa Monica, California. The name, ORBIT, is derived from online retrieval of bibliographic information timeshared. This umbrella system is continually being improved to provide ever greater retrieval power and today has over 60 data bases covering almost every aspect of scientific, technical, business and research endeavor.

2. A selection of some of the data bases with an indication of the subject area follows:

- a. APILIT, supplied by Central Abstracting and Indexing Service of The American Petroleum Institute (API), contains citations to literature relating to the petroleum refining and petrochemical industry, including information on alternate energy sources and environment effects of energy. Coverage includes both scientific and technical developments and engineering and process level work. Source documents include trade magazines, technical journals, meeting paper and government reports.
- b. ASI, is supplied by the Congressional Information Service, Inc., and is equivalent to the printed publication, American Statistics Index. The source documents are continuing serials, periodicals, annuals and biennials, and special publications containing the entire spectrum of

social, economic and demographic data collected and analyzed by all branches and agencies of the US government. Included are publications generated by the major US federal government statistical agencies: Bureau of Census, Bureau of Labor Statistics, National Center for Social Statistics and the Statistical Reporting Service of The Department of Agriculture.

- c. BUSINESS is supplied by Infomart (Southam Inc/Torstar Corp) and is equivalent to Business and Government News which indexes 14 major Canadian newspapers. The database covers every type of business - and government-related information including the economy, energy, environment, finance industry, labour, taxation and trade.
- d. CDI, supplied by Xerox University Microfilms, is equivalent to the printed publications, Dissertation Abstracts International (DAI) and American Doctoral Dissertations (ADD). This database provides a comprehensive index to all dissertations accepted for doctoral degrees (excluding professional or honorary degrees) granted by US educational institutions and over 125 non-US institutions. The Subject coverage is multi-disciplinary and includes the humanities, social sciences, sciences and engineering.
- e. CIS is supplied by the Congressional Information Service Inc. and is equivalent to the printed publication CIS Index. The material covers publication emanating from the work of committees

Reports, Committee Prints and other documents. Public Laws are added on an annual basis. Cross-disciplinary coverage includes public services programs, raw materials and consumer products, industry technology, legal questions, national and international government policies and events, conservation and the full range of issues and topics of legislative concern.

- f. CNI, is supplied by Information Access which is a joint project of Data Base Publishing Corporation and Micromedia. This database covers 7 major Canadian newspapers: Montreal Star, Toronto Globe and Mail, Toronto Star, Vancouver Sun, Winnipeg Free Press, Calgary Herald and Halifax Chronicle-Herald. The data base indexes all facets of the news, including national and international news, provincial affairs, local news, editorials, letters, obituaries, world news, government activities, labour news, fires, accidents, sports, biography and reviews.
- g. COMPENDEX, supplied by Engineering Index Inc, is equivalent to the Engineering Index Monthly. This database covers world-wide significant engineering literature from approximately 2,000 serials and over 900 monographic publications (including books and conference proceedings). Fields of engineering and related subject areas include: aerospace engineering; agricultural engineering and food technology; automotive engineering; bioengineering; chemical engineering; civil engineering; computers and data processing; construction materials; control engineering; electrical engineering; electronics

and communications engineering; engineering geology; engineering physics; fluid flow; heat and thermodynamics; industrial and management applications; instruments and measurements; light and optical technology; marine engineering; materials' properties and testing; mechanical engineering; metallurgical engineering; mining engineering; nuclear technology; ocean and underwater technology; petroleum engineering; pollution; sanitary engineering and waste; railroad engineering; transportation; and water and waterworks engineering.

- h. COLD, supplied by the US Army Corps of Engineers (Cold Regions Research and Engineering Laboratory), is equivalent to Antarctic Bibliography and Bibliography on Cold Regions Science and Technology. The data base covers all disciplines dealing with Antarctica, the Antarctic Ocean and subantarctic islands; snow, ice and frozen ground; navigation in ice; civil engineering in cold regions; behavior and operation of materials and equipment in cold temperatures. The source materials include monographs, technical reports, journal articles, conference papers, patents and maps from world-wide agencies.
- j. CRECORD, supplied by Capitol Services Inc, is equivalent to the printed Congressional Record Section of Federal Abstracts. This data base provides a comprehensive index, with abstracts, of the Congressional Record, the official journal of proceedings of the US Congress including the House, Senate, Extension of Remarks and Digest

Sections. It contains references to bills and resolutions, amendments to bills and resolutions, committee and sub-committee reports, legislation recently signed into law (Public Law), floor actions, schedules of committee and floor activities, executive communications and speeches, participation in debates, and inserted materials by member of Congress.

- k. ELCOM, supplied by Cambridge Scientific Abstracts Inc, is equivalent to Electronics and Communications Abstracts Journal and Computer and Information Systems Abstracts Journal. The subject material includes electronic physics, electronic systems and applications, electronic circuits, electronic devices, communications, computer software, computer applications, computer mathematics, and computer electronics from international sources including periodicals, government reports, conference proceedings, books, dissertations and patents.
1. ENERGYLINE, is supplied by Environment Information Center Inc, based upon energy materials from Environment Abstracts and all materials from Energy Information Abstracts. The data base screens over 2,000 journals and research reports, surveys, hearings, irregular serials, monographs and conference proceedings to provide comprehensive coverage of some 20 different energy-related areas: economics; US policy and planning, international political and economic issues; R and D; resources and reserves; petroleum and natural gas resources; coal resources; fuel transport and storage; electric

power; nuclear power; thermonuclear power; industrial, transportation and residential consumption; and environmental impact.

- m. ENVIROLINE, supplied by Environment Information Center Inc, is equivalent to Environment Abstracts. This data base provides coverage in the environmental and resources areas of the journal literature, conference proceedings, governmental and institutional reports, newspapers, the Federal Register, books, and some films. Major topics covered are Air Environment (including air pollution, noise pollution and weather modification); Environmental Health (including food and drugs, population planning and control, chemical biological and radiological contamination); Land Environment (including land use and misuse, terrestrial resources, solid wastes, transportation and wildlife management); Resource Management (including renewable and non-renewable resources); and Water Environment (including water pollution, water resources, oceans and estuaries).
- n. ERIC, supplied by the National Institute of Education, comprises report literature and journal literature in educationally relevant areas: career education; adult and vocational and technical education; counselling and personnel services; reading and communication skills; educational management; handicapped and gifted children; information resources (including educational media/technology and library/information science); languages and linguistics; early childhood education; rural

education; rural education and small schools; science, mathematics and environmental education; social science/social studies; teacher education; tests, measurement, and evaluation; disadvantaged and junior colleges.

- p. FEDEX, (derived from Federal Index, its printed equivalent), supplied by Predicasts Inc, contains information on federal government activities from the Congressional Record, the Federal Register, the Weekly Compilation of Presidential Documents, Commerce Business Daily and the Washington Post. The citations provide access to the Code of Federal Regulations, the US Code, Public Laws, Congressional Bills, Resolutions and Reports. The information is indexed by acting government agency, affected industry or institution and type of government action or function.
- q. FSIA (its printed equivalent Food Science and Technology Abstracts) is supplied by International Food Information Service. This data base covers the entire field of food science and technology "from the farm gate to the packaged product...for all forms of food intended for human consumption." Topics include composition and properties of foods, food handling and transport, food engineering, food processing and pre-processing, analysis, quality control, legislation, hygiene, storage, packaging and the management of processes and plants. Primary food journals are abstracted cover to cover and fringe journals are included on a selective basis. Patents, standards, books.

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- r. FEDREQ, is supplied by Capitol Services Inc, with coverage including agriculture, arts and humanities, athletics, business, constitutional rights, consumer affairs, contracts, defense, environment, foreign affairs, law enforcement, parks and recreation, taxation, technology, trade, transportation and veterans' affairs. Documents surveyed included Rules, Proposed Rules, Public Law Notices, Meetings, Hearings and Presidential Proclamations.
- s. INSPEC, supplied by Inspec, (UK), Institution of Electrical Engineers, is based upon the printed Physics Abstracts, Electrical and Electronics Abstracts and Computer and Control Abstracts. This data base provides world wide coverage of the literature in physics, electrical and electronics engineering. The source documents are primarily journal articles; however, government reports, patents and monographs are included.
- t. LABORDOC, is supplied by the International Labour Organization. The data base covers worldwide journal and monographic literature in the field of economic and social development and industrial relations including such topics as international relations, economic conditions and policies, demography, management, education, law, agriculture, environment and earth sciences.
- u. LIBCON, is supplied by SDC Search Service and provides extensive coverage of the monographic

included are MARC records distributed by LC and main entry/title records keyed by 3M from the LC depository card set.

- v. MONITOR, is supplied by Bell and Howell and provides coverage of all articles and many of the regular columns that appear in all the regular editions of the Christian Science Monitor.
- w. NDEX, (based on Newspaper Indexes) is supplied by Bell and Howell. The coverage is general news (international, national, state and local) published in 7 major US newspapers: Chicago Tribune, Detroit News, Boston Post, Los Angeles Times, New Orleans Time Picayune, San Francisco Chronicle, Washington Post.
- x. NTIS, supplied the (US) National Technical Information Service, covers US government-sponsored research and development technical reports from over 2000 Federal agencies and some reprints, federally-sponsored translations, and foreign-language reports in areas of major technical interest. Multi-disciplinary scope includes aeronautics; agriculture; astronomy and astrophysics; atmospheric sciences; behavioural and social sciences; biological and medical sciences; chemistry; earth sciences and oceanography; electronics and electrical engineering; energy conversion (non-propulsive); materials; mathematical sciences; mechanical, industrial, civil and marine engineering; methods and equipment; military sciences; missile technology;

counter-measures; nuclear science and technology; ordnance; physics; propulsion and fuels; and space technology.

- y. POLLUTION, is supplied by Pollution, a division of Data Courier Inc, and contains references to worldwide technical literature covering some 2500 journals, conference proceedings and papers, and monographs in the subject areas of air pollution, water pollution, solid wastes, noise, pesticides, radiation and general environmental quality.
- z. PROMT, supplied by Predicasts Inc, is based on the printed form PROMT (derived from Predicasts Overview of Markets and Technology) which, in turn, derives from the US Bureau of Census' Census of Manufactures. The recorded material includes source, tables, abstracts and assigned codes and vocabulary.
- aa. QUEBEC, is supplied by Microtor Inc, and consists of extracts from three major French-language newspapers of North America: Le Devoir, La Presse and Le Soleil. The coverage includes cultural, economic, political, religious and social aspects of life in Quebec Province, as well as international news items.
- bb. SSCI, supplied by (US) Institute for Scientific Information and is based on the printed Social Sciences Citation Index. This data base provides references to journal literature in all areas of the social sciences including the following

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and finance, communications, community health, criminology, economics, demographics, education, ethnic group studies, geography, history, information and library science, international relations, law, linguistics, management, marketing, philosophy, political science, psychology, psychiatry, sociology, statistics and urban planning and development.

cc. SSIE, supplied by the Smithsonian Science Information Exchange Inc, covers research in progress and recently completed research sponsored by over 1300 (US) federal, state, and local government agencies; associations and foundations; individual investigators; universities and colleges and some industrial and non-US organizations. The subjects include basic and applied research in all areas of the life, physical, social behavioral and engineering sciences.

dd. TULSA, prepared at the University of Tulsa and equivalent to Petroleum Abstracts, provides worldwide coverage of literature and patents related to the exploration, development, and production of oil and natural gas including the fields of geology, geophysics and geochemistry; drilling, well logging, well completion and services; oil and gas production; reservoir studies and recovery methods; petroleum transportation and storage; ecology and pollution; and alternate fuels and energy sources.

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ee. USCA, prepared by the Washington Representative Services, is equivalent to the printed US Contract Awards which is based on data in the Commerce Business Daily (CBD), Sections A, H and U. The information recorded includes project title, awardee, sponsoring organization, funding, CBD date, contract and RFP numbers and category codes.

ff. USPSD, is supplied by the University of Pittsburgh (Center for International Studies) and is equivalent to the printed United States Political Science Documents. This data base provides cover-to-cover analysis of 150 major US journals devoted to political science world-wide. Subjects include foreign affairs and international relations, defense and strategic studies, "area" studies (Latin American, Africa, Middle East, etc.), urban and governmental affairs and the traditional concerns of voting, power, authority, legitimacy, etc.

ANNEX E

DROLS

1. The Defense research and development (R and D) in technology and engineering (T and E) On-line System (DROLS) provides access to information maintained at the US Defense Documentation Center. The enormous number and entries, with emphasis on the physical and social science, has a monthly update. Because of the classification and sensitivity of material, access by Canada is through DSIS.

2. A search technique may employ author, source (originating agency), key word in the title and descriptors. Boolean logic may be used in searching which may also be limited by security classification and time periods.

3. The material includes products from defense agencies and contractors. There are some abstracts provided for the numbered series ADa (unclassified) ADb (unclassified but limited distribution) and ADc (confidential, secret). There is no top secret material included. Following a successful search, DSIS will forward documents if they are held, otherwise a need-to-know is required to support a request to the US authorities.

ANNEX F

RETRO

1. The DSIS Retrospective Search System (RETRO) contains information on all documents held by DSIS which have been collected since 1946 and now total approximately 500,000. The collection is approximately 25% Canadian by source that includes the Defence Research Establishments and ORAE, other DND establishments, the CF Commands, the military staff colleges and contractors. Other important sources are the US, British, Australian government agencies (primarily defence) and NATO.

2. The search methods may include key words in the title, by author and by source. As well, a set of descriptors from a controlled vocabulary (based on TEST-Thesaurus of Engineering and Scientific Terms) may be employed. Boolean logic (AND, OR, NOT) may be used to aid searching.

3. One of the features of RETRO is that it leads to the large bank of microfiches available locally produced by (US) National Technical Information Service (NTIS) under the ADA numbered series which is unclassified and unrestricted covering US defense-sponsored activity.

4. As a result of a successful RETRO search, one obtains title, author, DSIS Accession number and a list of descriptors. This information provides an entry into the COM system (Computer Output Film) which will provide an abstract. This system permits a manual search through tapes whose subject material is organized by source, author, descriptors, and DSIS accession number.

ANNEX G

INFO GLOBE

1. INFO GLOBE is an on-line data base containing the full text of articles published in the Globe and Mail from November 1977 to the present. The Report on Business was added in January 1978. Virtually every article which appears in the Final Edition of the Globe and Mail is contained in the data base including subjects of news, sports, business news, entertainment, editorials, columns, features, fashion, letters to the editor, etc. Info Globe uses free text indexing which means that every word in every story is a searchable item.

ANNEX H

NYTIS/Information Bank

1. The New York Times Information Service (NYTIS) is a subsidiary of the New York Times Company which produces several databanks including the Information Bank. This is a comprehensive current affairs database providing coverage of national and international news and related topics. Input is derived from the final late city edition of the NYT, including Sunday and regional feature sections, plus more than 90 other newspapers and periodicals. Priority inputs are made for items from the NYT, Wall Street Journal, Washington Post, Business Week, and the Financial Times of London.

ANNEX J

NEXIS

1. This database, NEXIS, is an umbrella system produced by MEAD Data Central. This is a computerized information retrieval service providing on-line access to full-text information from newspapers, news and business magazines, newsletters, wire services, encyclopedias and other sources totalling altogether about 60. The subject areas include business, finance, economics, banking, petroleum, coal, mining, engineering, electronics, space technology, chemistry, US government and foreign affairs.

ANNEX K

CANSIM

1. CANSIM (Canadian Socio-economic Information Management System) is Statistics Canada's publicly accessible computerized data bank and supporting software. The CANSIM SUMMARY REFERENCE INDEX provides a general content outline of the data base and is the primary tool necessary to determine the availability of data and the DATA bank identification numbers. The CANSIM Main Base contains approximately 300,000 time series which are organized in groups and is equivalent to a "table" in a publication.

ANNEX L

DMS/ONLINE

1. DMS/ONLINE is an umbrella system jointly offered by DMS Inc. and Data Resources Ince. and which describes activity in the defense and aerospace industries with services as follows:

- a. Contract Awards/ONLINE provides total coverage for all nonclassified military and aerospace prime contracts in excess of \$10,000 awarded by federal agencies, departments or procurement offices that are responsible for developing, producing or procuring high-technology equipment. Detailed information is provided for each contract of the average total of about 80,000 which are awarded annually.
- b. DMS Market Intelligence/ONLINE will provide information about 19 key markets as follows -
 - i Aerospace Agencies
 - ii Aerospace Companies
 - iii "AN" Equipment
 - iv Civil Aircraft
 - v Defense Market
 - vi Electronic Systems
 - vii Military Aircraft
 - viii Missiles/Spacecraft

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- ix Ships/Vehicles/Ordnance
- x Electronic Warfare
- xi Gas Turbine Engines
- xii Middle East/Africa
- xiii Military Laser and EO
- xiv Military Simulators
- xv Missiles and Satellites (Europe)
- xvi NATO/Europe
- xvii NATO/Weapons
- xviii Radar and Sonar
- xix South America/Australasia

Each report contains all the defence programs relating to the report topic. Each program has a data section (eg. funding, mission characteristics and specifications etc.) and an analysis section (eg background, current activity, comments, forecast). Currently only 4 of these reports are online and these are: Electronic Systems; Military Aircraft; Missile/Spacecraft and Ships/Vehicles/Ordnance.

- c. Special Services/ONLINE contains all other publications produced by DMS, which include:

- i DMS Newsletters

International Defense Intelligence

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Defense Budget Intelligence
Contracting Intelligence
Aerospace Intelligence
Turbine Intelligence

ii DMS Special Studies

World Aircraft Forecast
World Helicopter Forecast
Military Laser and EO Europe 1982
US Code Name Handbook
Armored Vehicles
Others published from 1982 onwards.

In addition other services are available as follows:

- iii Official Defense document Service, since Feb 1982, contains every official document released from the White House, the State Department or Department of Defense relating to defense policy or the defense budget.

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iv Agency and Industry Officials, started in 1982, is an online organization chart service of defence agencies and top officials in defense and aerospace industries.

v Aerospace Intelligence Daily, started in 1982, gives a daily online newsletter (electronic mail) of important activities that have occurred world wide in the defense and aerospace industries.

DRI's INTERNATIONAL DATA BANKS

1. These data banks available from Data Resources, Inc., encompass a broad range of economic, financial and trade-oriented statistics for virtually every nation. Sources include both international agencies (such as IMF, World Bank and OECD) as well as national statistical agencies and central banks.

2. Within the wide number and variety of products available from DRI, the Department of External Affairs has chosen to subscribe to the following:

- a. Full Off-Line Canadian Economic Service
- b. Limited On-line Canadian Economic Service
- c. Limited Off-line European Economic Service
- d. Limited Off-line Japanese Economic Service
- e. ITS - International Trade Information Service
- f. INF/DOT - IMF Direction of Trade Data Bank

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g. IMF/BOP - IMF Balance of Payments Data Bank

3. The selection indicated in the previous paragraph comes from a larger number of interesting data bases which is listed fully below for information.

a. IBRD World Debt Tables Data Bank

b. IMF Balance of Payments Data Bank

c. IMF Direction of Trade Data Bank

d. IMF International Financial Statistics Data Bank

e. IMF International Financial Statistics Restated Data Bank

f. International Energy Data Banks

g. International Trade Information Service Data

h. OECD Economic Indicators Data Bank

j. OECD National Income Accounts Data Bank

k. OECD Series A Data Bank

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l. Current Economic Indicators Data Bank

m. European National Sources Data Bank

n. Japanese Data Bank

p. Japanese Energy Data Bank

q. Developing Countries Data Bank

r. Asian Data Bank

s. Latin America Data Bank

t. US Central Data Bank

u. US Prices Data Bank

ANNEX N

DOW JONES NEWS/RETRIEVAL

1. This data base, with information from one business quarter (90 days), contains:
 - a. articles from the Wall Street Journal, Barron's and the Dow Jones News Service (the "Broadtape")
 - b. Stock Quote Reporter with current day market quotes
 - c. Historical Quotes
 - d. DISCLOSURE ONLINE's company profiles
 - e. Media General Services detailed financial information on NY, AMEX and top OTC companies.
2. This data base is free-text searchable using words phrases or dates.

ANNEX Q

CANADA'S BILATERAL RELATIONS: SOME KEY STATISTICS

1. This database, published annually by the Library of the Canadian Department of External Affairs, is an automated reference guide to the statistics covering certain of Canada's bilateral relations under the following general headings:

- a. World Perspectives (Imports, exports, Canadian dollar exchange rate)
- b. Canadian Trade
- c. Canada-Balance of Payments
- d. Canadian and Foreign Investment Statistics
- e. Immigration-Travel
- f. Development Assistance
- g. Demographic Statistics
- h. Living Standards - OECD Countries

ANNEX P

INTERNATIONAL TRADE DATA BANK

1. This data bank, prepared by the International Economic Policy Secretariat Canadian Department of External Affairs, incorporates a flexible data manipulation and reporting system to provide annual data on the imports and exports of 66 individual major trading countries as well as for both the EEC of 9 as a group and the aggregate of OECD member countries. The material is published as a hard copy.

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